



June 2008

**DEPARTMENT OF EDUCATION**  
2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind Act*.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at [www.maine.gov/education/mea/index.htm](http://www.maine.gov/education/mea/index.htm).

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron  
Commissioner of Education



## School Report Grade 4

Test Date: March 2008  
Code: 11241332  
SAU: Orrington School Department  
School: Center Drive School

### Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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# SUMMARY OF SCORES

Test Date: March 2008

Grade: 4

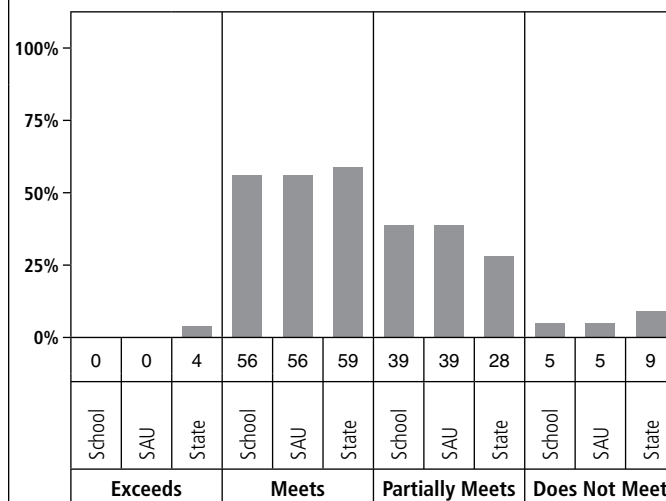
SAU: Orrington School Department

School: Center Drive School

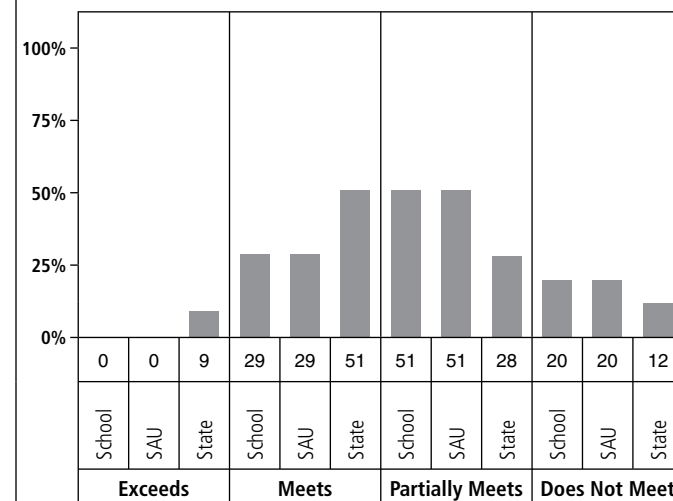
## Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
<b>ELA – Reading</b>			
2005–2006	444	444	444
2006–2007	447	447	445
<b>2007–2008</b>	<b>442</b>	<b>442</b>	<b>445</b>
Cum. Avg. *	444	444	445
<b>Mathematics</b>			
2005–2006	441	441	444
2006–2007	445	445	445
<b>2007–2008</b>	<b>438</b>	<b>438</b>	<b>445</b>
Cum. Avg. *	441	441	445
<b>Science &amp; Technology</b>			
2005–2006	443	443	444
2006–2007	444	444	444
<b>2007–2008</b>	<b>438</b>	<b>438</b>	<b>444</b>
Cum. Avg. *	442	442	444

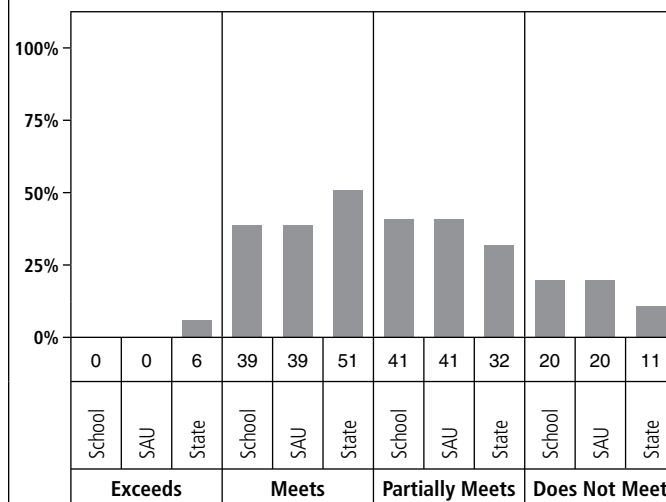
## ELA – READING



## MATHEMATICS



## SCIENCE AND TECHNOLOGY



\*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

# SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2008  
 Grade: 4  
 SAU: Orrington School Department  
 School: Center Drive School

CATEGORY OF PARTICIPATION	Enrollment <sup>1</sup> during testing window						CONTENT AREA PARTICIPATION <sup>2</sup>																							
							ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	42	100	42	100	14207	100	41	98	41	98	14181	100	41	98	41	98	14123	100	41	98	41	98	14115	99						
Ethnicity African American/Black	0	0	0	0	390	3	0	0	0	0	388	99	0	0	0	0	388	99	0	0	0	0	386	99						
American Indian or Native Alaskan	0	0	0	0	101	1	0	0	0	0	101	100	0	0	0	0	101	100	0	0	0	0	101	100						
Asian or Pacific Islander	1	2	1	2	263	2	1	100	1	100	259	98	1	100	1	100	262	100	1	100	1	100	262	100						
Hispanic	0	0	0	0	170	1	0	0	0	0	168	99	0	0	0	0	166	98	0	0	0	0	166	98						
Caucasian/White	41	98	41	98	13282	93	40	98	40	98	13264	100	40	98	40	98	13205	100	40	98	40	98	13199	99						
Not Reported	0	0	0	0	1	0	0	0	0	0	1	100	0	0	0	0	1	100	0	0	0	0	1	100						
Identified disability	12	29	12	29	2524	18	11	92	11	92	2514	100	11	92	11	92	2498	99	11	92	11	92	2494	99						
Current LEP	1	2	1	2	385	3	1	100	1	100	377	98	1	100	1	100	383	99	1	100	1	100	380	99						
Economically disadvantaged	15	36	15	36	5587	39	15	100	15	100	5569	100	15	100	15	100	5538	99	15	100	15	100	5534	99						
Migrant	0	0	0	0	5	0	0	0	0	0	5	100	0	0	0	0	5	100	0	0	0	0	5	100						

MODE OF PARTICIPATION <sup>3</sup>	ELA-Reading						Mathematics						Science and Technology																	
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
<b>Participation without accommodations</b>	31	74	31	74	10755	76	31	74	31	74	10730	76	31	74	31	74	10776	76												
Identified disability (PET/IEP)	1	3	1	3	375	3	1	3	1	3	374	3	1	3	1	3	384	4												
LEP	1	3	1	3	148	1	1	3	1	3	148	1	1	3	1	3	150	1												
504 plan	0	0	0	0	114	1	0	0	0	0	114	1	0	0	0	0	115	1												
<b>Participation with accommodations</b>	10	24	10	24	3298	23	10	24	10	24	3267	23	10	24	10	24	3215	23												
Identified disability (PET/IEP)	10	100	10	100	2013	61	10	100	10	100	1998	61	10	100	10	100	1986	62												
LEP	0	0	0	0	225	7	0	0	0	0	233	7	0	0	0	0	229	7												
504 plan	0	0	0	0	69	2	0	0	0	0	68	2	0	0	0	0	67	2												
Other	0	0	0	0	1046	32	0	0	0	0	1023	31	0	0	0	0	987	31												
<b>Participation through alternate assessment (PAAP)</b>	0	0	0	0	126	1	0	0	0	0	126	1	0	0	0	0	124	1												
Identified disability (PET/IEP)	0	0	0	0	126	100	0	0	0	0	126	100	0	0	0	0	124	100												
LEP	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	1	1												
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
<b>Approved non-participation in reading – 1st year LEP</b>	0	0	0	0	2	0																								
<b>Approved non-participation – special consideration</b>	0	0	0	0	15	0	0	0	0	0	16	0	0	0	0	0	12	0												
<b>Non-participation – other</b>	1	2	1	2	11	0	1	2	1	2	68	0	1	2	1	2	80	1												

1 Percents are the percentage of students enrolled in each participation category.

2 Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

3 Percents are the percentage of students in each content area by mode.



# ELA–READING RESULTS

Test Date:	March 2008
Grade:	4
SAU:	Orrington School Department
School:	Center Drive School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 461–480)	2005-2006	0	0	0	0	601	4
	2006-2007	1	2	1	2	507	4
	<b>2007-2008</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>559</b>	<b>4</b>
	Cum. Total*	1	1	1	1	1667	4
<b>Meets the Standards</b> – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 441–460)	2005-2006	29	63	29	63	7910	57
	2006-2007	29	71	29	71	8749	63
	<b>2007-2008</b>	<b>23</b>	<b>56</b>	<b>23</b>	<b>56</b>	<b>8308</b>	<b>59</b>
	Cum. Total*	81	63	81	63	24967	60
<b>Partially Meets the Standards</b> – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 431–440)	2005-2006	13	28	13	28	3970	29
	2006-2007	8	20	8	20	3467	25
	<b>2007-2008</b>	<b>16</b>	<b>39</b>	<b>16</b>	<b>39</b>	<b>3922</b>	<b>28</b>
	Cum. Total*	37	29	37	29	11359	27
<b>Does Not Meet the Standards</b> – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 400–430)	2005-2006	4	9	4	9	1421	10
	2006-2007	3	7	3	7	1165	8
	<b>2007-2008</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>5</b>	<b>1264</b>	<b>9</b>
	Cum. Total*	9	7	9	7	3850	9

Learning Results Content Standard Cluster	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
<b>Total Reading Cluster</b>	<b>48</b>	<b>100</b>	27.8	57.9	27.8	57.9	29.7	61.9
<b>Literary Text</b>	<b>24</b>	<b>50</b>	14.8	61.7	14.8	61.7	15.5	64.6
<b>Informational Text</b>	<b>24</b>	<b>50</b>	13.0	54.2	13.0	54.2	14.2	59.2

The Maine *Learning Results* reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students’ reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine’s 1997 *Learning Results*, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

\*Percentages are calculated by dividing the cumulative total of the number of students in the achievement level by the cumulative total of the number of students tested.

# ELA-READING RESULTS

## (CONTINUED)

Test Date: March 2008  
 Grade: 4  
 SAU: Orrington School Department  
 School: Center Drive School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	41	0	0	23	56	16	39	2	5	442	41	0	56	39	5	442	14053	4	59	28	9	445
<b>Ethnicity</b>																						
African American/Black	0										0						384	1	36	35	28	438
American Indian or Native Alaskan	0										0						101	1	46	44	10	442
Asian or Pacific Islander	1										1						259	6	61	22	11	445
Hispanic	0										0						164	0	45	38	16	440
Caucasian/White	40	0	0	23	58	15	38	2	5	442	40	0	58	38	5	442	13144	4	60	28	8	445
Not Reported	0										0						1					
<b>Identified disability</b>																						
Yes	11	0	0	0	0	10	91	1	9	436	11	0	0	91	9	436	2388	0	29	44	26	437
No	30	0	0	23	77	6	20	1	3	444	30	0	77	20	3	444	11665	5	65	25	6	446
<b>Current LEP</b>																						
Yes	1										1						373	1	32	35	32	436
No	40	0	0	23	58	15	38	2	5	442	40	0	58	38	5	442	13680	4	60	28	8	445
<b>Economically disadvantaged</b>																						
Yes	15	0	0	4	27	9	60	2	13	437	15	0	27	60	13	437	5502	1	47	37	14	441
No	26	0	0	19	73	7	27	0	0	445	26	0	73	27	0	445	8551	6	67	22	5	447
<b>Migrant</b>																						
Yes	0										0						5	0	40	60	0	445
No	41	0	0	23	56	16	39	2	5	442	41	0	56	39	5	442	14048	4	59	28	9	445
<b>Gender</b>																						
Female	19	0	0	12	63	7	37	0	0	442	19	0	63	37	0	442	6959	5	61	26	8	446
Male	22	0	0	11	50	9	41	2	9	442	22	0	50	41	9	442	7093	3	57	30	10	444
Not Reported	0										0						1					
<b>Title 1A targeted program</b>																						
Yes	0										0						1890	0	37	46	17	439
No	41	0	0	23	56	16	39	2	5	442	41	0	56	39	5	442	12163	5	63	25	8	446
<b>Gifted/talented program</b>																						
Yes	10	0	0	8	80	2	20	0	0	447	10	0	80	20	0	447	266	21	74	4	0	456
No	31	0	0	15	48	14	45	2	6	441	31	0	48	45	6	441	13787	4	59	28	9	445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

# ELA–READING RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008  
 Grade: 4  
 SAU: Orrington School Department  
 School: Center Drive School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	7	0	0	0	0	2	67	1	33	433	7	0	0	67	33	433	5	1	42	36	21	440
B. less than one hour	54	0	0	14	64	8	36	0	0	443	54	0	64	36	0	443	74	4	62	27	7	445
C. one to two hours	39	0	0	9	56	6	38	1	6	443	39	0	56	38	6	443	18	5	59	29	7	446
D. more than two hours	0										0						2	3	32	34	31	438
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?</b>																						
A. The questions on the test match what I have learned in reading class.	24	0	0	7	70	3	30	0	0	444	24	0	70	30	0	444	30	6	63	24	7	446
B. They match some of what I have learned.	56	0	0	15	65	8	35	0	0	443	56	0	65	35	0	443	52	4	63	27	6	446
C. They match just a little of what I have learned.	10	0	0	1	25	2	50	1	25	438	10	0	25	50	25	438	12	2	46	37	15	441
D. There is no match.	10	0	0	0	0	3	75	1	25	435	10	0	0	75	25	435	5	0	33	40	26	437
<b>Which of the following best describes how you rate yourself as a student in reading?</b>																						
A. very good	56	0	0	12	52	10	43	1	4	441	56	0	52	43	4	441	35	7	66	20	6	448
B. good	37	0	0	9	60	5	33	1	7	443	37	0	60	33	7	443	51	3	60	29	7	445
C. fair	5	0	0	2	100	0	0	0	0	446	5	0	100	0	0	446	12	1	44	40	16	440
D. poor	2	0	0	0	0	1	100	0	0	436	2	0	0	100	0	436	2	0	23	47	30	436
<b>How hard was the reading part of this test?</b>																						
A. harder than my regular schoolwork	20	0	0	1	13	7	88	0	0	437	20	0	13	88	0	437	19	2	46	34	17	442
B. about the same as my regular schoolwork	50	0	0	14	70	5	25	1	5	444	50	0	70	25	5	444	62	5	64	26	5	446
C. easier than my regular schoolwork	30	0	0	8	67	4	33	0	0	444	30	0	67	33	0	444	18	3	58	29	10	444
<b>How hard were the reading passages on this test?</b>																						
A. Most of the passages were more difficult than what I usually read.	17	0	0	0	0	6	86	1	14	436	17	0	0	86	14	436	14	0	32	46	22	438
B. Most of the passages were about the same as what I usually read.	56	0	0	17	74	5	22	1	4	444	56	0	74	22	4	444	52	3	62	28	7	445
C. Most of the passages were easier than what I usually read.	27	0	0	6	55	5	45	0	0	443	27	0	55	45	0	443	33	7	68	20	5	448
<b>How much time do you spend reading at home each day?</b>																						
A. more than one hour	15	0	0	1	17	5	83	0	0	438	15	0	17	83	0	438	18	7	64	22	7	447
B. 20 minutes to an hour	71	0	0	21	72	7	24	1	3	444	71	0	72	24	3	444	55	4	64	26	6	446
C. less than 20 minutes	10	0	0	1	25	2	50	1	25	438	10	0	25	50	25	438	14	2	53	33	12	443
D. I rarely read at home.	5	0	0	0	0	2	100	0	0	436	5	0	0	100	0	436	13	1	44	39	16	441
<b>How many pages do you read in school and to complete homework assignments?</b>																						
A. five or fewer pages	13	0	0	3	60	2	40	0	0	442	13	0	60	40	0	442	23	3	50	34	13	442
B. six to ten pages	33	0	0	10	77	3	23	0	0	445	33	0	77	23	0	445	25	3	60	29	8	444
C. eleven or more pages	55	0	0	10	45	11	50	1	5	441	55	0	45	50	5	441	52	5	64	24	6	446
<b>Optional school/SAU question</b>																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

# MATHEMATICS RESULTS

Test Date: March 2008  
Grade: 4  
SAU: Orrington School Department  
School: Center Drive School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 461–480)	2005-2006	1	2	1	2	1294	9
	2006-2007	4	10	4	10	1054	8
	<b>2007-2008</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1321</b>	<b>9</b>
	Cum. Total*	5	4	5	4	3669	9
<b>Meets the Standards</b> – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (scaled score 441–460)	2005-2006	19	41	19	41	7000	50
	2006-2007	23	56	23	56	7394	53
	<b>2007-2008</b>	<b>12</b>	<b>29</b>	<b>12</b>	<b>29</b>	<b>7079</b>	<b>51</b>
	Cum. Total*	54	42	54	42	21473	51
<b>Partially Meets the Standards</b> – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 429–440)	2005-2006	19	41	19	41	3784	27
	2006-2007	9	22	9	22	3729	27
	<b>2007-2008</b>	<b>21</b>	<b>51</b>	<b>21</b>	<b>51</b>	<b>3955</b>	<b>28</b>
	Cum. Total*	49	38	49	38	11468	27
<b>Does Not Meet the Standards</b> – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 400–428)	2005-2006	7	15	7	15	1894	14
	2006-2007	5	12	5	12	1735	12
	<b>2007-2008</b>	<b>8</b>	<b>20</b>	<b>8</b>	<b>20</b>	<b>1642</b>	<b>12</b>
	Cum. Total*	20	16	20	16	5271	13

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
<b>Cluster 1: Numbers and Operations</b>	<b>15</b>	<b>31</b>	8.0	53.3	8.0	53.3	9.5	63.3
<b>Cluster 2: Shape and Size</b>	<b>14</b>	<b>29</b>	7.4	52.9	7.4	52.9	9.1	65.0
<b>Cluster 3: Mathematical Decision Making</b>	<b>5</b>	<b>10</b>	3.2	64.0	3.2	64.0	3.4	68.0
<b>Cluster 4: Patterns</b>	<b>14</b>	<b>29</b>	9.0	64.3	9.0	64.3	9.7	69.3

- Cluster 1: Numbers and Operations**  
A. Numbers and Number Sense  
B. Computation  
I. Discrete Mathematics (grades 3 and 4 only)
- Cluster 2: Shape and Size**  
E. Geometry  
F. Measurement
- Cluster 3: Mathematical Decision Making**  
C. Data Analysis and Statistics  
D. Probability
- Cluster 4: Patterns**  
G. Patterns, Relations, and Functions  
H. Algebra Concepts  
K. Mathematical Communication

Each content standard in the clusters above is defined in Maine’s 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

# MATHEMATICS RESULTS

## (CONTINUED)

Test Date: March 2008  
 Grade: 4  
 SAU: Orrington School Department  
 School: Center Drive School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	41	0	0	12	29	21	51	8	20	438	41	0	29	51	20	438	13997	9	51	28	12	445
<b>Ethnicity</b>																						
African American/Black	0										0						386	4	26	34	36	434
American Indian or Native Alaskan	0										0						101	3	46	41	11	442
Asian or Pacific Islander	1										1						262	14	51	23	12	447
Hispanic	0										0						162	4	41	34	21	440
Caucasian/White	40	0	0	11	28	21	53	8	20	437	40	0	28	53	20	437	13085	10	51	28	11	446
Not Reported	0										0						1					
<b>Identified disability</b>																						
Yes	11	0	0	1	9	3	27	7	64	427	11	0	9	27	64	427	2372	3	31	36	30	436
No	30	0	0	11	37	18	60	1	3	442	30	0	37	60	3	442	11625	11	54	27	8	447
<b>Current LEP</b>																						
Yes	1										1						381	4	33	28	35	435
No	40	0	0	11	28	21	53	8	20	437	40	0	28	53	20	437	13616	10	51	28	11	445
<b>Economically disadvantaged</b>																						
Yes	15	0	0	1	7	9	60	5	33	431	15	0	7	60	33	431	5472	5	41	35	19	440
No	26	0	0	11	42	12	46	3	12	442	26	0	42	46	12	442	8525	13	56	24	7	448
<b>Migrant</b>																						
Yes	0										0						5	0	80	20	0	448
No	41	0	0	12	29	21	51	8	20	438	41	0	29	51	20	438	13992	9	51	28	12	445
<b>Gender</b>																						
Female	19	0	0	3	16	13	68	3	16	436	19	0	16	68	16	436	6933	9	50	29	12	445
Male	22	0	0	9	41	8	36	5	23	440	22	0	41	36	23	440	7063	10	51	27	11	446
Not Reported	0										0						1					
<b>Title 1A targeted program</b>																						
Yes	0										0						1890	2	34	41	23	438
No	41	0	0	12	29	21	51	8	20	438	41	0	29	51	20	438	12107	11	53	26	10	446
<b>Gifted/talented program</b>																						
Yes	10	0	0	5	50	5	50	0	0	445	10	0	50	50	0	445	266	45	49	5	0	461
No	31	0	0	7	23	16	52	8	26	436	31	0	23	52	26	436	13731	9	51	29	12	445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number



# MATHEMATICS RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008  
Grade: 4  
SAU: Orrington School Department  
School: Center Drive School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	7	0	0	0	0	0	0	3	100	424	7	0	0	0	100	424	5	6	34	33	27	438
B. less than one hour	54	0	0	6	27	13	59	3	14	438	54	0	27	59	14	438	74	10	52	28	10	446
C. one to two hours	39	0	0	6	38	8	50	2	13	440	39	0	38	50	13	440	18	10	52	28	10	446
D. more than two hours	0										0						2	5	33	28	34	436
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?</b>																						
A. The questions on the test match what I have learned in mathematics class.	24	0	0	6	60	4	40	0	0	444	24	0	60	40	0	444	38	13	56	23	8	448
B. They match some of what I have learned.	49	0	0	4	20	13	65	3	15	439	49	0	20	65	15	439	48	8	52	29	10	445
C. They match just a little of what I have learned.	17	0	0	1	14	4	57	2	29	431	17	0	14	57	29	431	10	4	35	39	22	439
D. There is no match.	10	0	0	1	25	0	0	3	75	431	10	0	25	0	75	431	4	2	25	33	40	433
<b>Which of the following best describes how you rate yourself as a student in mathematics?</b>																						
A. very good	51	0	0	9	43	9	43	3	14	441	51	0	43	43	14	441	35	16	55	20	8	449
B. good	34	0	0	3	21	9	64	2	14	438	34	0	21	64	14	438	48	7	52	31	11	445
C. fair	12	0	0	0	0	3	60	2	40	428	12	0	0	60	40	428	14	3	41	38	18	440
D. poor	2	0	0	0	0	0	0	1	100	426	2	0	0	0	100	426	3	1	29	36	34	435
<b>How hard was the mathematics part of this test?</b>																						
A. harder than my regular schoolwork	20	0	0	0	0	4	50	4	50	431	20	0	0	50	50	431	15	4	38	33	25	439
B. about the same as my regular schoolwork	63	0	0	7	28	16	64	2	8	439	63	0	28	64	8	439	64	10	54	28	9	446
C. easier than my regular schoolwork	18	0	0	4	57	1	14	2	29	441	18	0	57	14	29	441	21	13	52	24	11	447
<b>How often do you use hands-on materials in mathematics class?</b>																						
A. almost every day	39	0	0	5	31	5	31	6	38	434	39	0	31	31	38	434	23	8	47	29	16	443
B. two or three days a week	29	0	0	3	25	8	67	1	8	439	29	0	25	67	8	439	36	11	54	27	9	447
C. two or three times each month	12	0	0	1	20	4	80	0	0	442	12	0	20	80	0	442	25	10	53	27	10	446
D. never or almost never	20	0	0	3	38	4	50	1	13	441	20	0	38	50	13	441	16	9	46	32	13	444
<b>How often do you use calculators in mathematics class?</b>																						
A. almost every day	5	0	0	0	0	0	0	2	100	421	5	0	0	0	100	421	5	3	30	33	33	436
B. two or three days a week	20	0	0	2	25	6	75	0	0	441	20	0	25	75	0	441	19	8	50	30	12	445
C. two or three times each month	24	0	0	3	30	6	60	1	10	441	24	0	30	60	10	441	38	11	55	26	8	447
D. never or almost never	51	0	0	7	33	9	43	5	24	437	51	0	33	43	24	437	38	9	50	29	12	445
<b>On average, how many minutes a day do you spend working on mathematics in class?</b>																						
A. less than 30 minutes	10	0	0	1	25	2	50	1	25	434	10	0	25	50	25	434	8	3	33	38	25	438
B. 30–45 minutes	15	0	0	1	17	4	67	1	17	438	15	0	17	67	17	438	27	6	48	33	13	443
C. 45–60 minutes	39	0	0	6	38	8	50	2	13	441	39	0	38	50	13	441	38	11	54	26	9	447
D. more than 60 minutes	37	0	0	4	27	7	47	4	27	436	37	0	27	47	27	436	26	13	55	23	9	448
<b>Optional school/SAU question</b>																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

# SCIENCE AND TECHNOLOGY RESULTS

Test Date: March 2008  
Grade: 4  
SAU: Orrington School Department  
School: Center Drive School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 461–480)	2005-2006	1	2	1	2	751	5
	2006-2007	3	7	3	7	963	7
	<b>2007-2008</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>882</b>	<b>6</b>
	Cum. Total*	4	3	4	3	2596	6
<b>Meets the Standards</b> – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 441–460)	2005-2006	25	54	25	54	7251	52
	2006-2007	22	54	22	54	6824	49
	<b>2007-2008</b>	<b>16</b>	<b>39</b>	<b>16</b>	<b>39</b>	<b>7130</b>	<b>51</b>
	Cum. Total*	63	49	63	49	21205	51
<b>Partially Meets the Standards</b> – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 429–440)	2005-2006	15	33	15	33	4514	32
	2006-2007	11	27	11	27	4382	32
	<b>2007-2008</b>	<b>17</b>	<b>41</b>	<b>17</b>	<b>41</b>	<b>4433</b>	<b>32</b>
	Cum. Total*	43	34	43	34	13329	32
<b>Does Not Meet the Standards</b> – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 400–428)	2005-2006	5	11	5	11	1458	10
	2006-2007	5	12	5	12	1735	12
	<b>2007-2008</b>	<b>8</b>	<b>20</b>	<b>8</b>	<b>20</b>	<b>1546</b>	<b>11</b>
	Cum. Total*	18	14	18	14	4739	11

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Life Sciences	12	25	7.4	61.7	7.4	61.7	8.0	66.7
Cluster 2: Physical Sciences	12	25	6.2	51.7	6.2	51.7	7.2	60.0
Cluster 3: Earth and Space Sciences	12	25	6.1	50.8	6.1	50.8	7.4	61.7
Cluster 4: Nature and Implications of Science	12	25	7.1	59.2	7.1	59.2	7.6	63.3

## Cluster 1: Life Sciences

- A. Classifying Life Forms
- B. Ecology
- C. Cells

## Cluster 2: Physical Sciences

- E. Structure of Matter
- H. Energy
- I. Motion

## Cluster 3: Earth and Space Sciences

- D. Continuity and Change
- F. The Earth
- G. The Universe

## Cluster 4: Nature and Implications of Science

- J. Inquiry and Problem Solving
- K. Scientific Reasoning
- L. Communication
- M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine’s 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at <http://www.maine.gov/education/lslat/gles.htm>.

# SCIENCE AND TECHNOLOGY RESULTS

(CONTINUED)

Test Date: March 2008  
 Grade: 4  
 SAU: Orrington School Department  
 School: Center Drive School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	41	0	0	16	39	17	41	8	20	438	41	0	39	41	20	438	13991	6	51	32	11	444
<b>Ethnicity</b>																						
African American/Black	0										0						385	2	27	35	36	434
American Indian or Native Alaskan	0										0						101	3	44	44	10	441
Asian or Pacific Islander	1										1						262	5	52	28	14	443
Hispanic	0										0						162	2	38	39	21	439
Caucasian/White	40	0	0	15	38	17	43	8	20	438	40	0	38	43	20	438	13080	7	52	31	10	444
Not Reported	0										0						1					
<b>Identified disability</b>																						
Yes	11	0	0	2	18	4	36	5	45	432	11	0	18	36	45	432	2370	2	32	41	25	437
No	30	0	0	14	47	13	43	3	10	441	30	0	47	43	10	441	11621	7	55	30	8	445
<b>Current LEP</b>																						
Yes	1										1						379	1	25	35	39	433
No	40	0	0	15	38	17	43	8	20	438	40	0	38	43	20	438	13612	6	52	32	10	444
<b>Economically disadvantaged</b>																						
Yes	15	0	0	4	27	4	27	7	47	434	15	0	27	27	47	434	5470	3	41	39	18	440
No	26	0	0	12	46	13	50	1	4	441	26	0	46	50	4	441	8521	9	57	27	7	446
<b>Migrant</b>																						
Yes	0										0						5	20	20	40	20	443
No	41	0	0	16	39	17	41	8	20	438	41	0	39	41	20	438	13986	6	51	32	11	444
<b>Gender</b>																						
Female	19	0	0	7	37	9	47	3	16	438	19	0	37	47	16	438	6929	6	49	33	12	443
Male	22	0	0	9	41	8	36	5	23	439	22	0	41	36	23	439	7061	7	53	30	10	444
Not Reported	0										0						1					
<b>Title 1A targeted program</b>																						
Yes	0										0						1888	1	32	44	23	437
No	41	0	0	16	39	17	41	8	20	438	41	0	39	41	20	438	12103	7	54	30	9	445
<b>Gifted/talented program</b>																						
Yes	10	0	0	5	50	4	40	1	10	443	10	0	50	40	10	443	266	30	65	5	1	457
No	31	0	0	11	35	13	42	7	23	437	31	0	35	42	23	437	13725	6	51	32	11	444

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

# SCIENCE AND TECHNOLOGY RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008  
Grade: 4  
SAU: Orrington School Department  
School: Center Drive School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	7	0	0	1	33	1	33	1	33	432	7	0	33	33	33	432	5	4	37	36	22	439
B. less than one hour	54	0	0	8	36	11	50	3	14	440	54	0	36	50	14	440	74	6	53	31	10	444
C. one to two hours	39	0	0	7	44	5	31	4	25	438	39	0	44	31	25	438	18	7	52	32	8	445
D. more than two hours	0										0						2	4	31	33	32	437
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about science?</b>																						
A. The questions on the test match what I have learned in science class.	17	0	0	2	29	4	57	1	14	439	17	0	29	57	14	439	24	9	53	28	10	446
B. They match some of what I have learned.	61	0	0	9	36	12	48	4	16	439	61	0	36	48	16	439	49	6	54	31	9	445
C. They match just a little of what I have learned.	20	0	0	4	50	1	13	3	38	436	20	0	50	13	38	436	21	4	47	36	13	442
D. There is no match.	2	0	0	1	100	0	0	0	0	442	2	0	100	0	0	442	6	2	35	37	25	438
<b>Which of the following best describes how you rate yourself as a student in science?</b>																						
A. very good	20	0	0	2	25	2	25	4	50	433	20	0	25	25	50	433	25	9	53	27	10	446
B. good	59	0	0	10	42	12	50	2	8	441	59	0	42	50	8	441	54	6	55	30	9	445
C. fair	15	0	0	3	50	2	33	1	17	439	15	0	50	33	17	439	19	3	43	40	15	441
D. poor	7	0	0	1	33	1	33	1	33	434	7	0	33	33	33	434	3	2	28	42	29	435
<b>How difficult was the science part of this test?</b>																						
A. harder than my regular schoolwork	22	0	0	3	33	4	44	2	22	435	22	0	33	44	22	435	22	5	45	35	15	442
B. about the same as my regular schoolwork	59	0	0	10	42	11	46	3	13	440	59	0	42	46	13	440	62	7	53	31	9	445
C. easier than my regular schoolwork	20	0	0	3	38	2	25	3	38	437	20	0	38	25	38	437	16	7	52	28	13	444
<b>How often do you have science classes?</b>																						
A. every day	5	0	0	1	50	1	50	0	0	438	5	0	50	50	0	438	24	7	48	33	12	444
B. a few times a week	76	0	0	12	39	13	42	6	19	439	76	0	39	42	19	439	53	7	54	31	9	445
C. once a week	7	0	0	0	0	3	100	0	0	437	7	0	0	100	0	437	9	6	46	33	15	442
D. a few times a month	12	0	0	3	60	0	0	2	40	437	12	0	60	0	40	437	14	5	50	31	14	443
<b>Which statement best describes how you learn science?</b>																						
A. I mostly read a textbook and answer questions, and/or take notes and do assignments. I use science kits for demonstrations and experiments.	15	0	0	2	33	2	33	2	33	437	15	0	33	33	33	437	25	5	48	34	13	443
B. I work in groups to design and conduct experiments.	32	0	0	1	8	9	69	3	23	434	32	0	8	69	23	434	27	4	46	37	13	442
C. I do a combination of A and B, but mostly A.	32	0	0	9	69	2	15	2	15	441	32	0	69	15	15	441	26	7	56	28	8	445
D. I do a combination of A and B, but mostly B.	22	0	0	4	44	4	44	1	11	441	22	0	44	44	11	441	22	9	55	26	9	446
<b>Optional school/SAU question</b>																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											